

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **24CZ-LD5-40-S-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40-S-UNV-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4124.1 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

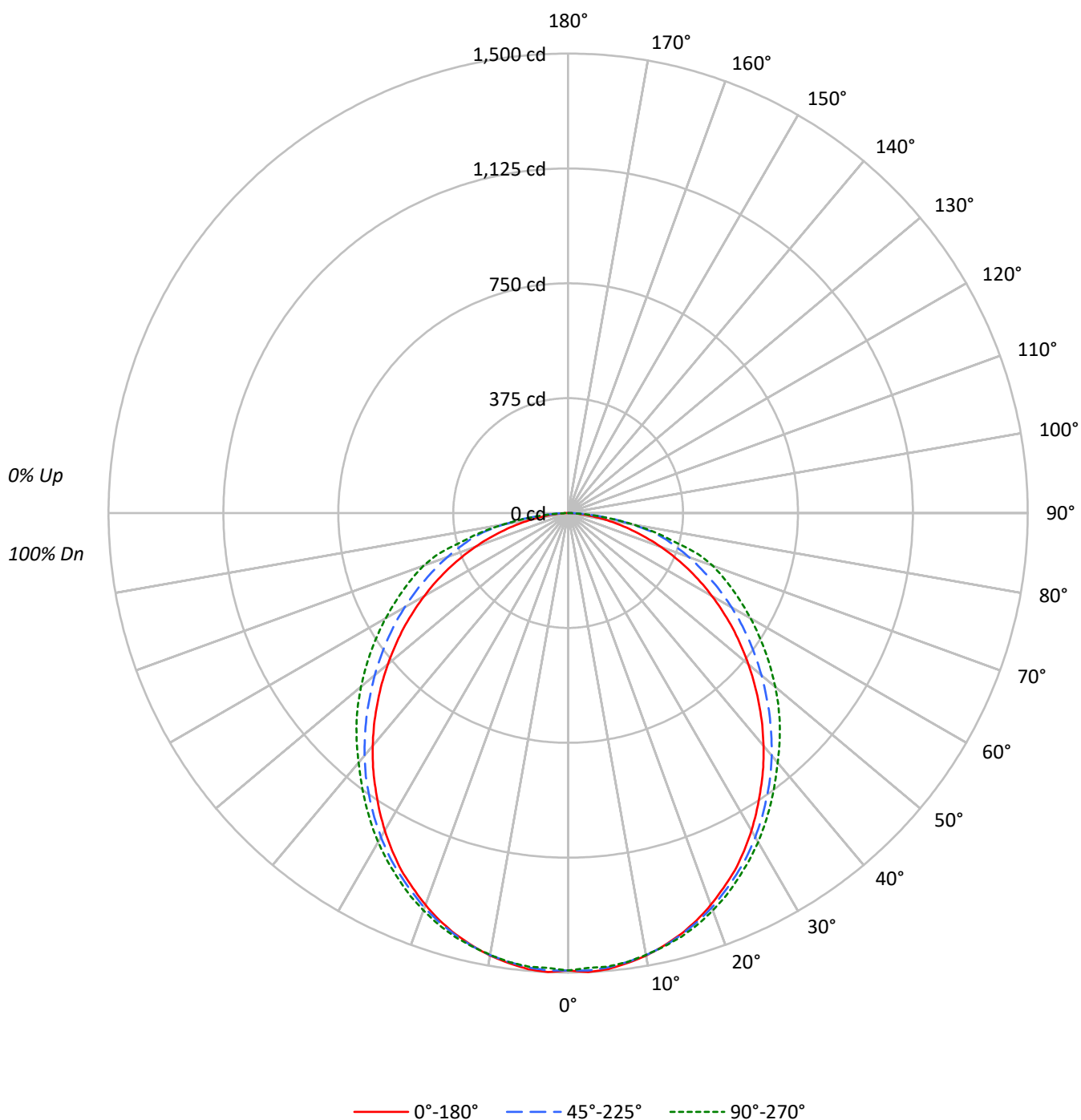
Input Watts (W): 29.04
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	99	90	83	77	96	88	82	76		85	79	75		81	77	73		78	75	71
3	90	79	71	64	87	77	70	64		74	68	62		72	66	61		69	64	60
4	82	70	61	54	80	69	60	54		66	59	53		64	58	52		62	56	52
5	76	63	53	47	73	61	53	47		59	52	46		57	51	45		55	50	45
6	70	56	47	41	68	55	47	41		54	46	40		52	45	40		50	44	40
7	65	51	42	36	63	50	42	36		49	41	36		47	41	35		46	40	35
8	60	47	38	32	59	46	38	32		45	37	32		43	37	32		42	36	32
9	56	43	35	29	55	42	34	29		41	34	29		40	33	29		39	33	29
10	53	40	32	26	52	39	31	26		38	31	26		37	31	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2009	2009	2009
5°	2014	2002	1999
10°	1995	1984	1983
15°	1969	1958	1967
20°	1932	1926	1941
25°	1889	1885	1907
30°	1833	1841	1873
35°	1770	1791	1832
40°	1707	1738	1793
45°	1635	1679	1771
50°	1562	1621	1743
55°	1486	1568	1718
60°	1398	1518	1703
65°	1302	1471	1705
70°	1182	1437	1737
75°	1024	1423	1551
80°	820	1243	1292
85°	544	804	754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	3.4
10°-20°	401.5	9.7
20°-30°	598.3	14.5
30°-40°	704.3	17.1
40°-50°	715.7	17.4
50°-60°	643.4	15.6
60°-70°	508.3	12.3
70°-80°	322.5	7.8
80°-90°	89.0	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1140.9	27.7
0°-40°	1845.2	44.7
0°-60°	3204.3	77.7
0°-90°	4124.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4124.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1493	1493	1493	1493	1493	
5°	1494	1482	1489	1486	1486	142
15°	1423	1416	1426	1430	1431	401
25°	1287	1286	1301	1309	1315	592
35°	1096	1103	1131	1143	1154	686
45°	881	893	929	956	977	680
55°	656	672	719	766	785	586
65°	431	453	515	571	593	427
75°	215	252	328	357	354	229
85°	45	78	84	77	77	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1493.0	1493.0	1493.0	1493.0	1493.0
2.5°	1499.9	1488.9	1494.4	1491.6	1486.2
5°	1494.4	1482.0	1488.9	1486.2	1486.2
7.5°	1482.0	1472.4	1477.9	1476.5	1477.9
10°	1466.9	1457.3	1465.6	1465.6	1464.2
12.5°	1446.4	1438.1	1447.7	1447.7	1449.1
15°	1423.0	1416.2	1425.8	1429.9	1431.3
17.5°	1394.2	1387.4	1399.7	1403.8	1407.9
20°	1361.3	1358.5	1370.9	1375.0	1380.5
22.5°	1324.2	1324.2	1336.6	1342.1	1350.3
25°	1287.2	1285.8	1300.9	1309.1	1314.6
27.5°	1243.3	1244.6	1263.8	1272.1	1278.9
30°	1196.6	1199.4	1221.3	1230.9	1240.5
32.5°	1147.2	1152.7	1177.4	1188.4	1198.0
35°	1096.4	1103.3	1130.7	1143.1	1154.1
37.5°	1045.7	1055.3	1084.1	1096.4	1108.8
40°	992.1	1000.4	1033.3	1048.4	1063.5
42.5°	937.3	948.2	981.2	1003.1	1021.0
45°	881.0	893.3	929.0	956.5	977.0
47.5°	824.7	841.2	875.5	912.6	930.4
50°	768.5	784.9	823.4	864.5	882.4
52.5°	710.8	727.3	771.2	813.7	833.0
55°	655.9	672.4	719.1	765.7	784.9
57.5°	598.3	616.1	668.3	716.3	735.5
60°	542.0	559.9	616.1	666.9	687.5
62.5°	487.2	506.4	565.4	618.9	639.5
65°	430.9	452.8	514.6	570.9	592.8
67.5°	376.0	400.7	465.2	524.2	547.5
70°	321.1	349.9	418.5	478.9	502.2
72.5°	267.6	299.2	371.9	432.3	444.6
75°	215.4	252.5	328.0	356.8	354.0
77.5°	166.0	207.2	278.6	284.1	292.3
80°	120.8	166.0	208.6	219.6	214.1
82.5°	79.6	124.9	149.6	144.1	142.7
85°	45.3	78.2	83.7	76.8	76.8
87.5°	19.2	31.6	27.4	20.6	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)